

Comparisons of Job Characteristics

Focus Occupation: Structural Iron and Steel Workers (47-2221)

Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	15.1	13.5	<	Expanded education and/or training may be required
Mathematics	9.2	14.7	12.5	<	Expanded education and/or training may be required
Design	5.2	12.8	11.2	<	Expanded education and/or training may be required
Building and Construction	4.0	12.6	18.3	>>	Current knowledge level is likely more than sufficient
Production and Processing	6.0	10.2	13.2	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Quality Control Analysis	5.9	7.5	8.3	>	Skill level is likely sufficient
Equipment Selection	3.3	6.0	6.1	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 53

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Near Vision	11.1	12.5	12.4	0	Current ability level may be sufficient
Visualization	7.5	11.5	12.3	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	10.4	14.3	>>	Current ability level is likely more than sufficient
Information Ordering	9.9	10.2	10.0	0	Current ability level may be sufficient
Problem Sensitivity	11.1	10.1	10.4	0	Current ability level may be sufficient
Oral Comprehension	12.5	9.7	9.5	0	Current ability level may be sufficient
Oral Expression	12.4	9.5	8.8	0	Current ability level may be sufficient
Manual Dexterity	6.5	9.4	13.5	>>	Current ability level is likely more than sufficient
Auditory Attention	5.9	8.2	11.6	>>	Current ability level is likely more than sufficient
Extent Flexibility	4.8	7.9	12.1	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Work Activities	Exclusivity of Activity
Fabricate, assemble, or disassemble manufactured products by hand	11
Make independent judgment in assembly procedures	64
Operate hoist, winch, or hydraulic boom	34
Read blueprints	10
Recognize characteristics of metals	62
Use hand or power tools	2
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Structural Iron and Steel Workers (47-2221)
Associated Occupation: Layout Workers, Metal and Plastic (51-4192)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.